

Appendix 2-7: Temporary Modifications in Regulation Schedules in Water Year 2011

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A. Temporary Regulation Modifications Due to Construction

Construction Duration:

- S-59 construction period: 1/11/2011 to 4/12/2011
- S-62 construction period: 3/10/2011 to 4/22/2011
- S-63 construction period: 2/14/2011 to 5/2/2011

Modification of Zone B operations, related to construction at S-59, S-62, and S-63, was 0.5 foot lower than the current regulation schedule, but not lower than the low point on the regulation schedule. In addition, a soft transition target back to regulation schedule was included. **Figures 1 through 6** show temporary modifications to regulation schedules.

1. Lakes Myrtle, Joe and Preston
 - i. Zone B operations were modified here due to downstream construction at S-59 and S-62. Modified Zone B operations ended when both S-59 and S-62 construction work was completed on 4/22/2011.
 - ii. No releases were made as a result of the modified Zone B operations. Due to dry conditions, lake level remained below modified operations line (see **Figure 1**).
2. Lakes Hart and Mary Jane
 - i. Zone B operations were modified here due to downstream construction at S-59 and construction at S-62. Modified Zone B operations ended when both S-59 and S-62 construction work was completed on 4/22/2011.
 - ii. Releases were made at S-62 using the bypass pumps during the construction period (see **Figure 2**).
3. East Lake Toho
 - i. Modified Zone B operations for construction ended when S-59 construction work was completed on 4/12/2011. However, modified Zone B operations due to consideration of Everglade snail kites (*Rostrhamus sociabilis plumbeus*) continued until 7/1/2011.
 - ii. Releases were made at S-59 using the bypass pumps during the construction period (see **Figure 3**).

¹ Contributed as SFWMD staff during the draft SFER production cycle.

4. Lake Toho
 - i. No construction work was done here. However, modified Zone B operations started in 3/1/2011 and ended 7/1/2011 due to consideration of snail kites.
 - ii. Releases were made at S-61 using the modified Zone B operations (see **Figure 4**).
5. Lakes Alligator, Brick, Lizzie, Coon and Trout
 - i. Zone B operations were modified here due to downstream construction at S-63. Modified Zone B operations ended when S-63 construction work was completed on 5/2/2011.
 - ii. No releases were made as a result of the modified Zone B operations. Due to dry conditions, lake level remained well below modified operations line (see **Figure 5**).
6. Lake Gentry
 - i. Modified Zone B operations ended when S-63 construction work was completed on 5/2/2011.
 - ii. Releases were made at S-63 using the bypass pumps during the construction period (see **Figure 6**).

B. Temporary Regulation Modifications Due to Snail Kites

Discussions with the U.S. Fish and Wildlife Service regarding their request for modified recession rates and the desire to not have more than a 0.5 foot stage reversal began in January 2011. The target lines in the following figures for East Lake Toho and Lake Toho were prepared in March 2011 and revised in May 2011. Two versions of **Figures 3 A** and **3B** and **Figures 4A** and **4B** (prepared in March and May, respectively) are shown; comparatively, the recession rate in latter figures is extended until mid-June (instead of June 1 ending), and then transitions back to the normal regulation line by July 1. For East Lake Toho, the snail kite modified recession rate took precedence over modifications due to construction discussed above.

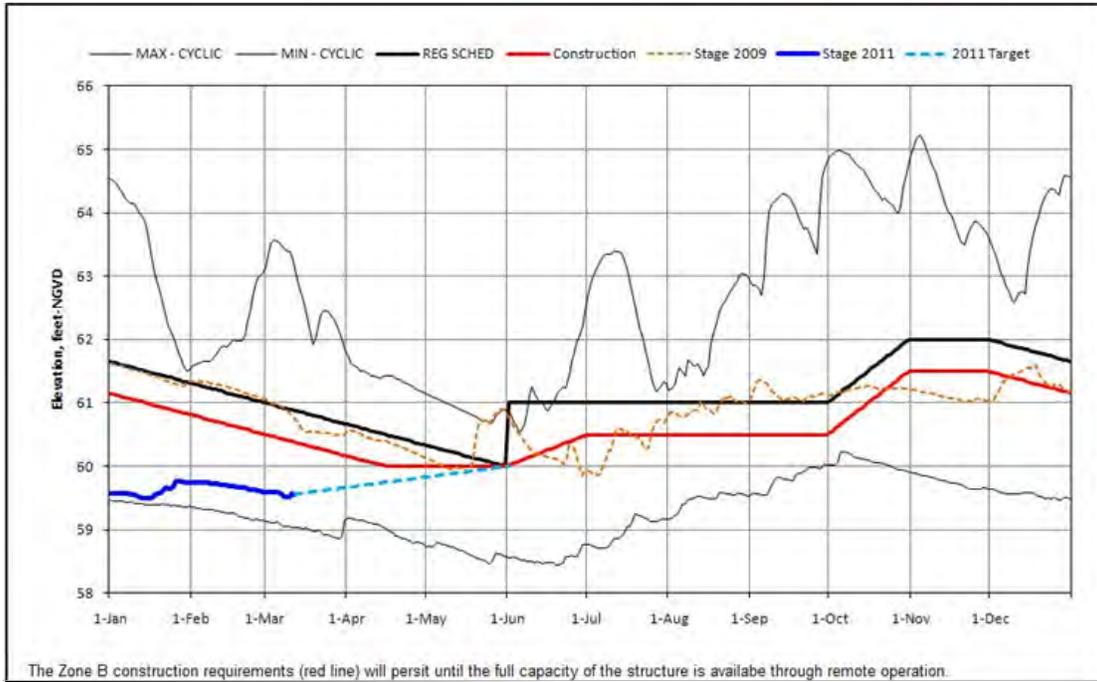


Figure 1. Lake Joel, Myrtle and Preston Zone B operations during 2011 repair of concrete at S-59 and S-62.

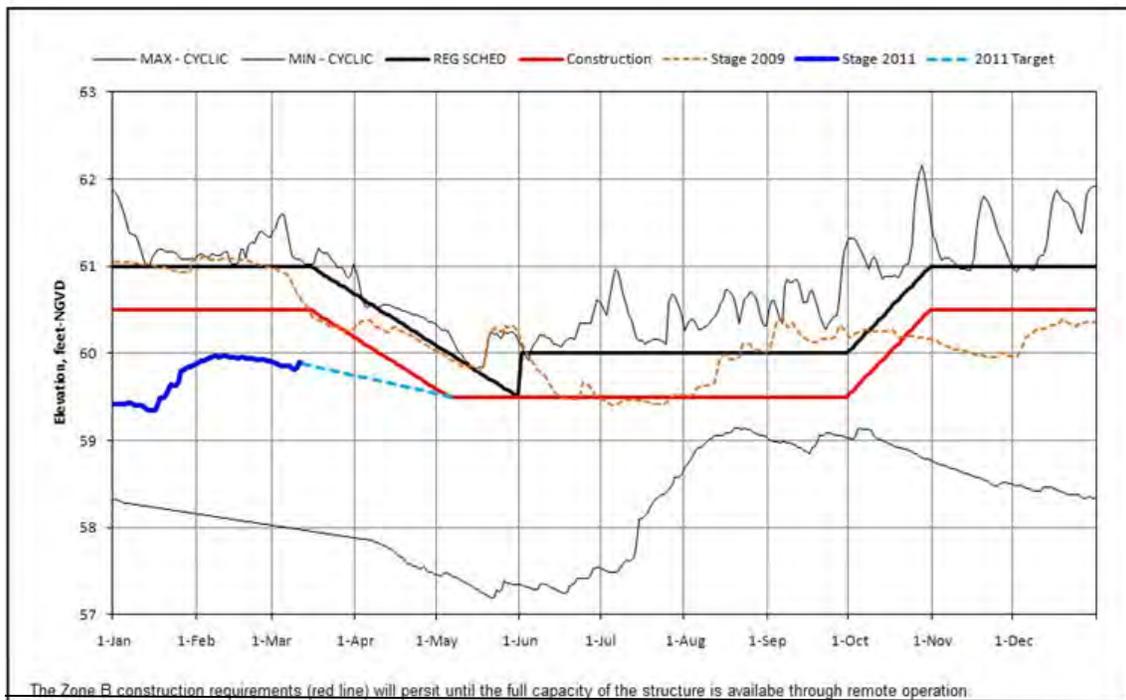


Figure 2. Lake Hart and Mary Jane Zone B operations during 2011 repair of concrete at S-59 and S-62.

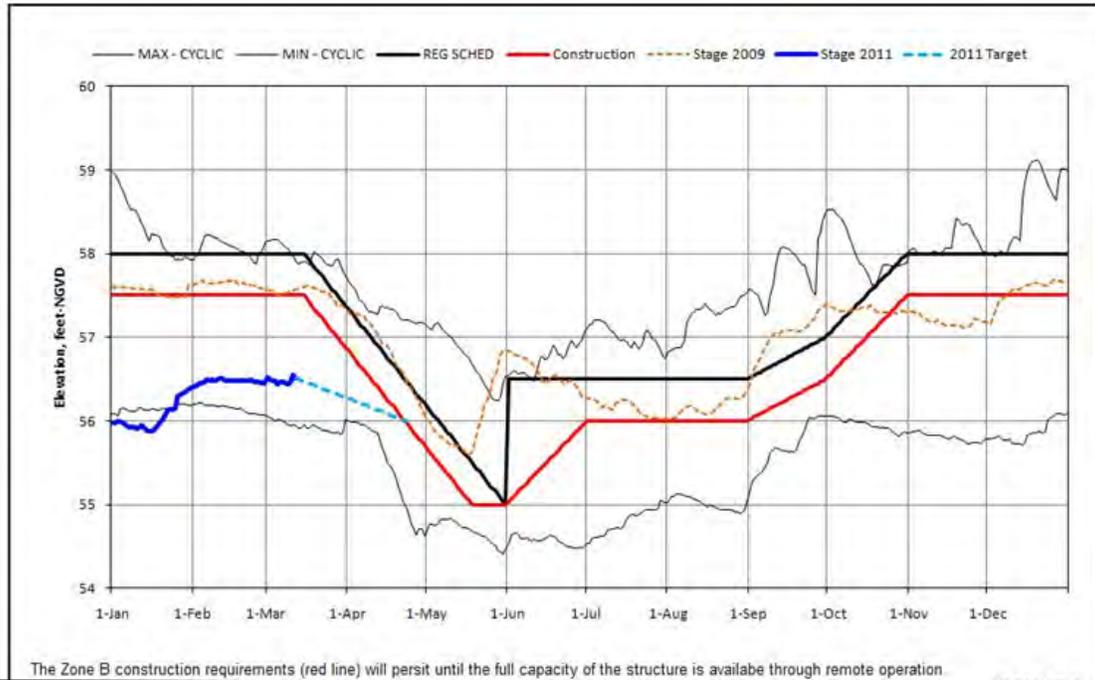


Figure 3a. East Lake Tohopekaliga Zone B operations during 2011 repair of concrete at S-59.

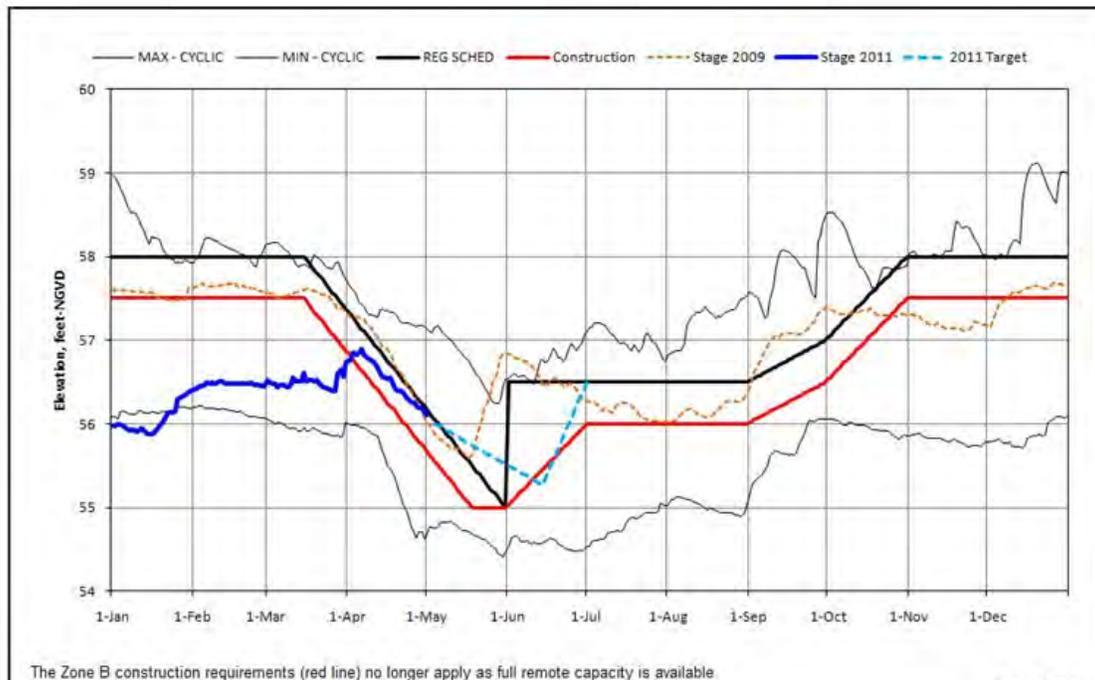


Figure 3b. East Lake Tohopekaliga Zone B operations during 2011 repair of concrete at S-59 and for snail kite (extended recession rate until mid-June).

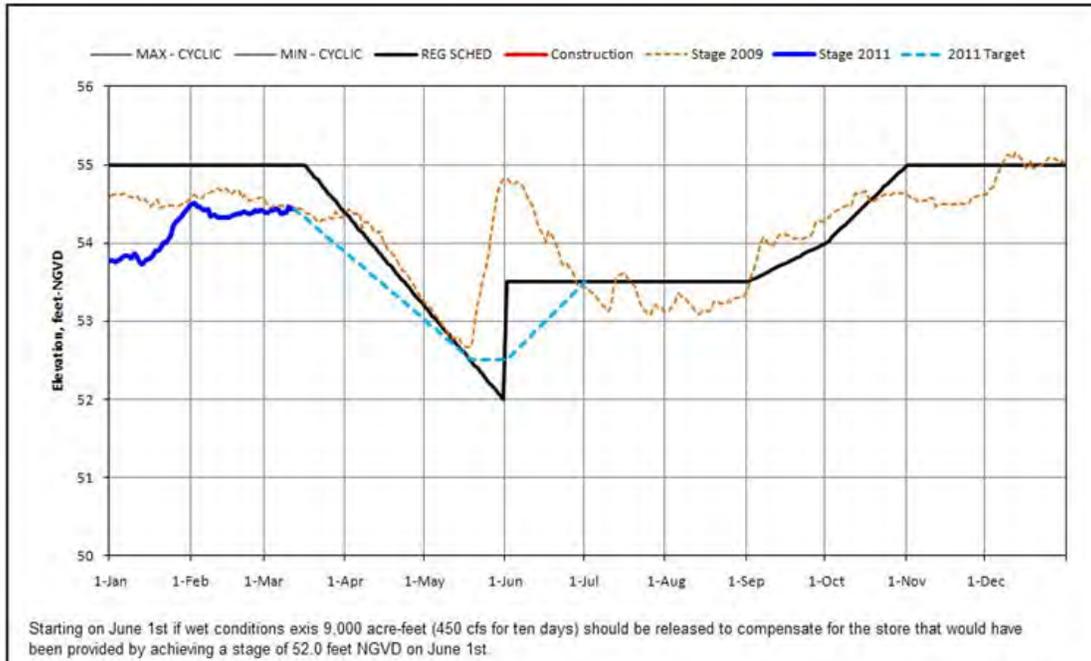


Figure 4a. Lake Tohopekaliga Zone B operations to moderate recession for snail kite.

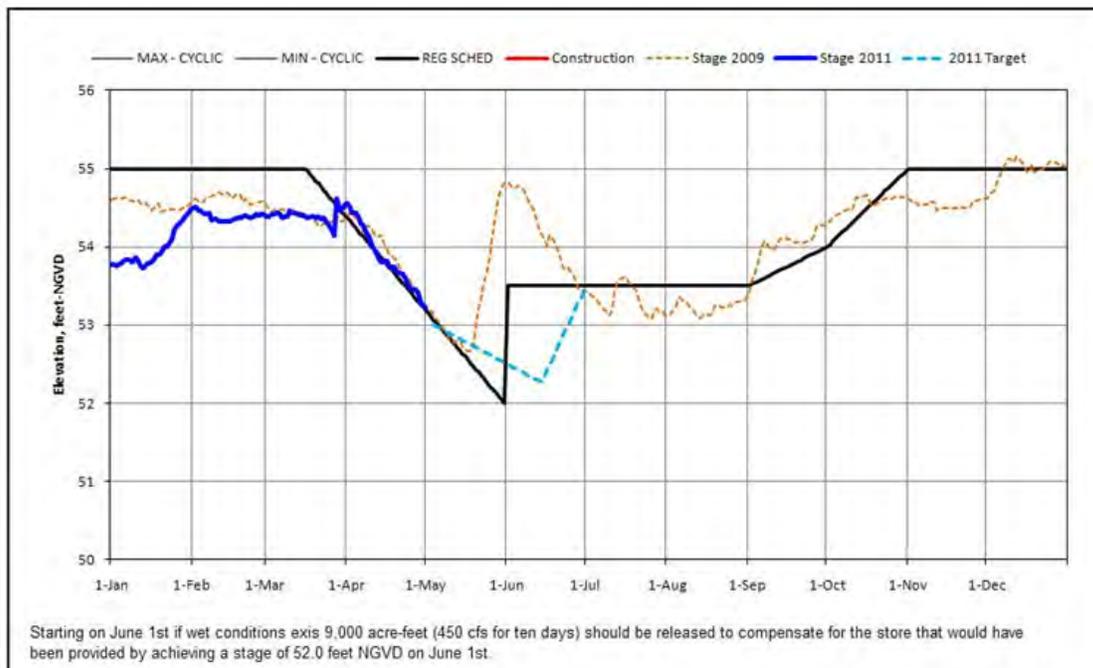


Figure 4b. Lake Tohopekaliga Zone B operations to moderate recession for snail kite (extended recession rate until mid-June).

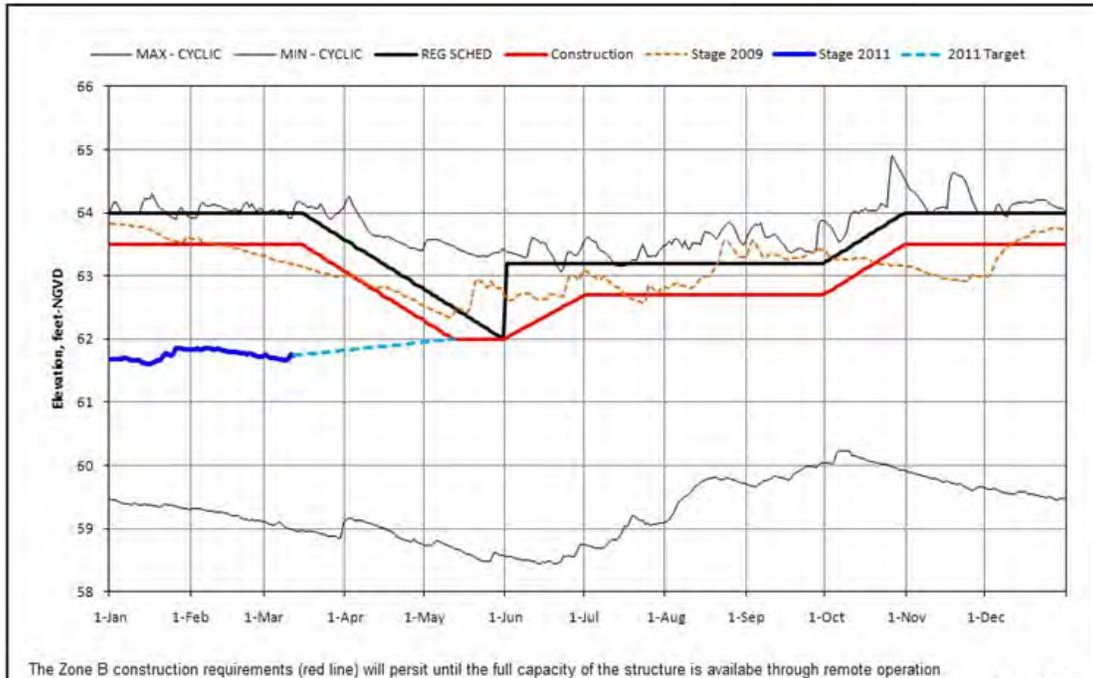


Figure 5. Lake Alligator, Brick, Lizzie, Coon, and Trout Zone B operations during 2011 repair of concrete at S-63.

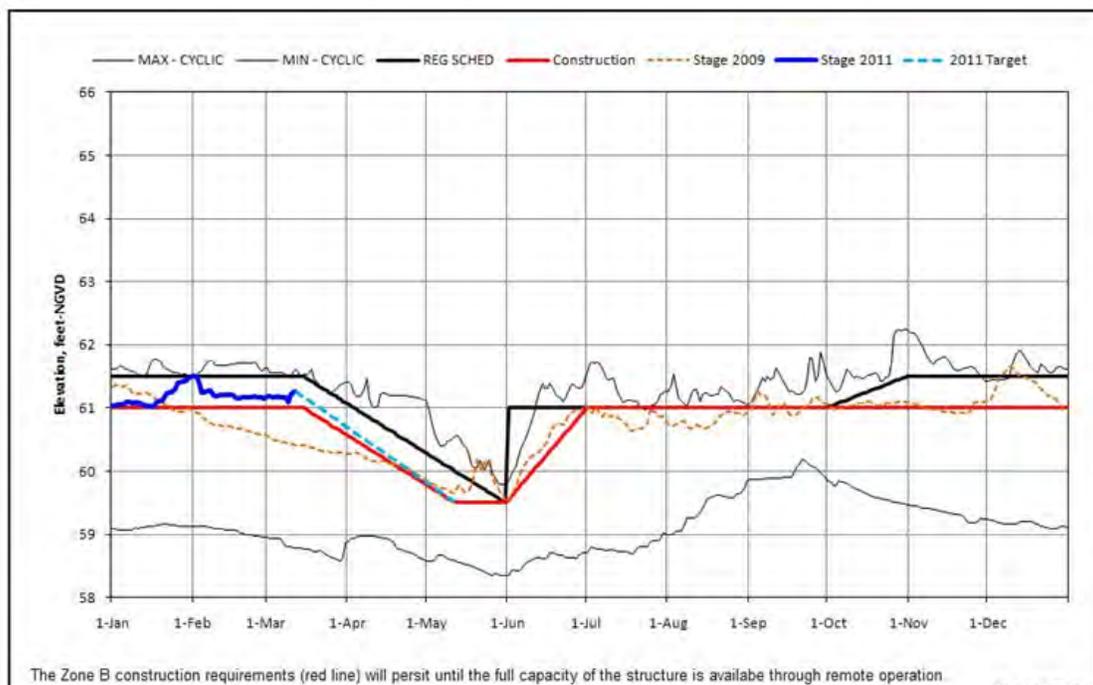


Figure 6. Lake Gentry Zone B operations during 2011 repair of concrete at S-63.